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MONTANA OIL AND GAS STATISTICAL BULLETIN

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BOARD OF OIL AND GAS CONSERVATION
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Vol. XXI, No. 11 **NOVEMBER, 1973**

Production of crude oil and condensate from the oil and gas areas of Montana for the month of November, 1973, averaged 96,524 barrels daily, a decrease of 892 barrels from the average October production of 97,416.

The nine refineries in the state processed 145,602 barrels of crude oil daily for the month of November, 1973, an increase of 273 barrels from the 145,329 barrels processed daily during the month of October.

During November, 59 wells were completed, 9 oil, 12 gas and 38 dry holes.

During November, the commission issued 90 permits to drill new wells, a decrease of 2 from the 92 permits issued during October.

SUMMARY OF CRUDE PRODUCTION, REFINING, STORAGE, ETC., IN MONTANA MONTH OF NOVEMBER, 1973

IN STORAGE November 1st	
By Producers	304,351
By Transporters	1,202,212
By Refiners	987,667
TOTAL STORAGE	2,494,230
Produced in Montana During Month	2,895,725
Imported During Month	3,525,789
TOTAL	8,915,744
DISPOSITION:	
Refined in Montana	4,368,076
Exported	1,904,252
Used for Fuel or Lost	3,282
TOTAL	6,275,610
IN STORAGE November 30th	
By Producers	297,491
By Transporters	1,311,019
By Refiners	1,031,624
TOTAL STORAGE	2,640,134

NATURAL GAS WITHDRAWALS IN MONTANA

Month of November, 1973

Field	M. C. Ft.
Bear's Den	4,927
Big Coulee	142,475
Blackjack	50,942
Bowdoin	521,030
Bowes	51,669
Cabin Creek	59,238
Cedar Creek	1,243,307
Cut Bank (including Regan)	313,715
Dry Creek	47,920
Elk Basin	44,482
Flat Coulee	9,048
Gold Butte	—0—
Grandview	13,936
Hardin	2,016
Keith Block	131,305
Kevin Sunburst	44,072
Lake Basin	2,577
Liscom Creek	37,295
Middle Butte	2,498
Mt. Lilly	11,465
Pine	53,726
Plevna	6,532
South Devon	17,002
Tiger Ridge	2,116,324
Trail Creek	13,121
Utopia	54,852
West Butte	96,115
Whitlash	67,299
Miscellaneous	246,002
TOTAL	5,404,890

Total Withdrawals for November, 1972, were 4,970,499.

HELENA, MONTANA 59620

PRODUCERS REPORT—MONTH OF NOVEMBER, 1973

Leases	Field	No. of Wells	Storage First of Month	Oil Produced	Oil Shipped By		Used or Lost	Storage End of Month
					Pipeline	Truck		
3	Ash Creek	3	39	865	----	693	----	211
1	Bainville	1	2,190	2,072	----	1,991	----	2,271
2	Bannatyne	2	----	425	425	----	----	----
4	Bear's Den	5	1,023	755	----	817	----	961
17	Bell Creek	235	23,359	767,134	770,709	----	6	19,778
1	Benrud	1	187	241	147	----	----	281
3	Benrud East	3	1,889	12,908	13,038	----	----	1,759
1	Benrud Northeast	1	512	1,614	1,511	----	----	615
1	Berthelote	1	287	150	150	----	----	287
5	Big Wall	14	1,349	4,891	4,805	----	----	1,435
4	Blackfoot	4	503	2,593	2,663	----	----	433
5	Border	7	2,300	733	----	----	----	3,033
1	Bowes	51	5,158	10,076	9,528	----	----	5,706
1	Bradley	1	256	604	410	----	----	450
4	Brorson-Madison	4	1,366	3,026	----	3,451	----	941
5	Brorson-Red River	5	6,208	9,656	----	10,299	----	5,565
3	Brorson-Red River South	3	1,694	8,843	----	7,967	----	2,570
1	Burns Creek	1	431	2,033	----	2,107	----	357
6	Brush Lake	6	1,834	12,456	12,677	----	----	1,613
2	Cabin Creek	85	----	205,139	205,139	----	----	----
1	Canal	1	545	5,615	----	5,276	----	884
9	Cat Creek	39	2,488	12,026	12,064	----	----	2,450
1	Chelsea Creek	1	232	404	----	258	----	378
----	Clark's Fork	----	178	----	----	166	----	12
1	Clark's Fork South	1	363	274	----	537	----	100
2	Cow Creek	2	564	516	----	735	----	345
4	Cow Creek East	5	1,030	16,336	----	16,085	----	1,281
1	Culbertson	1	108	725	----	700	----	133
4	Cupton	6	3,247	6,744	5,139	1,744	----	3,108
117	Cut Bank	836	56,951	322,553	322,519	784	2	56,199
----	Dean Dome	----	65	----	----	----	----	65
1	Deer Creek	1	286	1,103	920	----	----	469
1	Delphia	1	294	----	----	144	----	150
----	Devil's Basin	----	825	----	329	----	----	496
2	Dwyer	10	4,269	10,839	11,480	----	----	3,628
3	Elk Basin	46	667	111,733	111,740	----	----	660
5	Elk Basin Northwest	8	1,784	3,383	3,667	----	----	1,500
5	Fairview	10	9,262	26,977	10,715	15,997	----	9,527
2	Fertile Prairie	2	921	1,246	----	1,614	----	553
4	Flat Coulee	20	2,639	9,697	10,349	----	----	1,987
36	Flat Lake	52	3,806	51,887	52,928	----	----	2,765
6	Flat Lake South	6	904	8,068	7,938	----	----	1,034
1	Four Buttes	1	319	378	----	221	----	476
1	Ft. Gilbert	2	782	13,450	12,500	----	----	1,732
1	Frannie	1	----	690	690	----	----	----
6	Fred & George Creek	24	2,825	39,651	40,151	----	----	2,325
1	Froid South	1	416	900	----	900	----	416
1	Gage	1	222	120	----	174	----	168
3	Gas City	18	3,773	17,294	11,964	5,461	----	3,642
1	Girard	1	1,647	1,063	----	1,262	----	1,448
11	Glendive	14	1,722	20,680	21,179	----	----	1,223
10	Goose Lake	28	3,428	23,696	23,316	----	----	3,808
7	Graben Coulee	18	4,387	8,761	4,768	2,944	----	5,436
1	Hay Creek-Mission Canyon	1	36	200	200	----	----	36
1	Hay Creek-Red River	1	588	4,525	4,525	----	----	588
4	Hiawatha	4	2,680	5,765	6,541	----	----	1,904
1	Hibbard	1	518	268	----	384	----	402
----	Injun Creek	----	266	----	----	----	----	266
6	Ivanhoe	11	843	3,096	2,482	----	----	1,457
3	Jim Coulee	20	3,264	38,683	38,220	----	----	3,727
6	Keg Coulee	19	4,658	14,771	15,593	----	108	3,728
2	Keg Coulee North	2	776	2,319	2,680	----	----	415
1	Kelley	3	945	5,271	5,468	----	----	748
63	Kevin Sunurst	335	10,472	17,185	14,324	2,653	2	10,678
8	Laird Creek	10	442	2,416	----	2,244	----	614
1	Landslide Butte	2	1,351	400	----	----	----	1,751
3	Leary	3	2,004	2,001	----	2,903	6	1,096
1	Little Beaver	23	----	38,447	38,447	----	----	----
2	Little Beaver East*	10	1,462	11,089	11,543	----	----	1,008
1	Little Wall Creek	1	397	2,948	3,149	----	----	196
1	Lodge Grass	1	244	782	----	586	----	440
7	Lonetree Creek	7	6,419	20,027	4,569	16,313	----	5,564
3	Lookout Butte (Coral Creek)	30	352	52,800	52,568	----	----	584
1	Mason Lake	1	444	501	----	----	----	945
2	Melstone	3	641	1,944	1,987	----	----	598
1	Mineral Bench	1	403	356	----	----	----	759
----	Miner's Coulee	----	----	----	----	----	----	----
7	Monarch	14	3,938	11,591	9,974	2,413	----	3,142
3	Mosser	3	----	275	----	275	----	----
1	Nohly	1	805	7,727	----	7,797	----	735
2	Otis Creek	2	1,017	2,714	----	2,771	----	960
6	Outlook	8	3,118	12,050	10,723	----	----	4,445
1	Outlook South	1	961	338	----	----	----	1,299
2	Outlook West	2	1,292	2,226	2,479	----	----	1,039
1	Pennel-Lookout Butte	107	----	190,120	190,120	----	----	----
4	Pine	108	16,766	246,787	246,319	----	----	17,234
59	Pondera	256	3,042	21,133	20,300	----	3	3,872
6	Poplar	63	7,835	41,882	42,853	----	----	6,864
2	Poplar Northwest	2	1,321	546	231	----	----	1,636
----	Prairie Elk	----	474	----	----	----	----	474
1	Pritchard Creek	5	167	698	698	----	----	167
1	Putnam	2	242	6,838	----	6,838	----	242
3	Rabbit Hills	3	2,117	5,969	----	6,374	----	1,712
7	Ragged Point	16	4,391	18,010	18,248	----	----	4,153
2	Rattlesnake Coulee	2	704	332	584	----	----	452
4	Raymond	4	2,050	42,907	42,227	----	----	2,730
3	Reagan	44	845	14,276	14,261	----	----	860
1	Red Creek	19	----	13,195	13,195	----	----	----
1	Red Fox	1	239	733	657	----	----	315
1	Redstone	1	232	1,185	920	----	----	497
----	Repeat	----	20	----	----	----	----	20
3	Reserve	4	659	4,737	4,741	----	----	655
1	Richey	1	460	464	434	----	----	490
1	Richey Southwest	5	936	935	1,456	----	----	415
1	Rush Mountain	1	615	2,394	2,670	----	----	339
2	Salt Lake	3	304	3,292	----	3,322	----	274
2	Sand Creek	2	1,075	2,549	2,441	----	----	1,183
1	Second Creek	1	672	7,353	----	7,057	----	968
2	Sioux Pass	2	886	21,221	----	20,623	----	1,484
1	Snyder	4	212	470	----	159	----	523
7	Soap Creek	18	1,541	3,218	----	3,014	----	1,745
2	Spring Lake	2	921	1,166	----	696	----	1,391
3	Stensvad	8	4,094	44,273	45,706	----	----	2,661
18	Sumatra	84	19,017	104,192	104,238	----	----	18,971
5	Tule Creek	5	2,472	18,920	----	18,705	----	2,687
2	Tule Creek East	2	636	4,765	----	4,782	----	619
3	Tule Creek South	3	912	2,165	----	2,502	----	575
2	Vida	2	878	791	----	999	----	670
4	Volt	5	1,574	9,302	9,504	----	----	1,372
3	Weldon	3	1,015	4,881	5,018	----	----	878
1	West Butte	1	----	1,067	----	1,067	----	----
15	Whitlash	36	7,043	11,734	11,845	----	----	6,932
----	Whitlash West	----	284	----	----	----	----	284
2	Willow Creek North	2	606	1,585	1,501	----	----	690
2	Wills Creek South	2	----	2,438	2,438	----	----	----
2	Wolf Springs	2	1,144	1,536	1,356	----	----	1,324
2	Woodrow	2	149	2,240	1,873	----	----	516
2	Wright Creek	4	2,555	1,081	2,086	----	----	1,550
----	Wildcat, Blaine Co.	----	157	----	----	----	----	157
----	Wildcat, McCone Co.	----	37	----	----	----	----	37
2	Wildcat, Musselshell Co.	2	518	5,257	----	5,226	----	549
1	Wildcat, Roosevelt Co.	1	370	1,350	----	1,478	----	242
----	Wildcat, Toole	----	294	----	----	----	----	294
647	TOTAL	2,950	304,351	2,895,725	2,698,950	203,508	127	297,491

Total Oil Produced and Shipped from Leases	Bbls. Produced	Daily Average	Bbls. Shipped	Daily Average
Year, 1972	33,904,139	92,634	33,861,385	92,517
First Quarter, 1973	8,463,610	94,040	8,461,995	94,022
Second Quarter, 1973	8,624,084	94,770	8,628,131	94,815
Third Quarter, 1973	8,630,888	93,814	8,631,425	93,820
October, 1973	3,019,910	97,416	3,025,227	97,587
Novemer, 1973	2,895,725	96,524	2,902,458	96,748

Oil In Storage	In Producers Field Tanks	In Transporters Storage	In Refiners Storage**	Total Oil in Storage**
December, 1972	320,567	1,303,848	1,228,659	2,853,074
March, 1973	319,421	1,187,629	669,292	2,176,342
June, 1973	313,690	1,360,758	743,010	2,417,458
September, 1973	311,328	1,337,313	757,706	2,406,347
October, 1973	304,351	1,202,212	987,667	2,494,230
Novemer, 1973	297,491	1,311,019	1,031,624	2,640,134

*Montana Oil Only

**Includes Wyoming Oil

TRANSPORTERS REPORT — MONTH OF NOVEMBER, 1973

	Storage First of Month	Oil Received By			Loss or Gain	Oil Shipped To			Storage End of Month
		Pipeline	Truck	Connecting Carrier		Montana	Other States	Connecting Carrier	
ASH CREEK—Western Crude Oil Co.			693				693		
BAINVILLE—Koch Oil Company			1,991				1,991		
BEAR'S DEN—Truck			817				817		
BELL CREEK—Pipeline	67,758	770,709					415,622	355,005	67,840
BIG WALL—Continental Pipeline Co.		4,805				4,805			
BLACKFOOT—									
Camerland Cardinal Corp.		2,663						2,663	
BOWES—Texaco		9,528				9,528			
BRORSON-MADISON, BRORSON-RED RIVER AND BRORSON-RED RIVER SOUTH—Koch Oil Company			21,717					21,717	
BRUSH LAKE—Portal Pipeline Co.		12,682					12,682		
BURNS CREEK—									
Western Crude Oil, Inc.			2,107				2,107		
CABIN CREEK AND OTHERS*—									
Butte Pipeline Co.	224,821	468,383	34,979	1,556,885			2,000,475		284,593
Shell Pipeline Co.	3,169	311,477			86			309,063	5,497
	227,990	779,860	34,979	1,556,885	86		2,000,475	309,063	290,090
CANAL—Koch Oil Company			5,276				5,276		
CAT CREEK—									
Continental Pipeline Co.		12,145				12,145			
CHELSEA CREEK—									
Western Crude Oil, Inc.			258				258		
CLARK'S FORK AND CLARK'S FORK SOUTH—Permian Corp.			703				703		
COW CREEK AND COW CREEK EAST—Western Crude Oil, Inc.			16,820				16,820		
CULBERTSON—Spruce Oil Co.			700				700		
CUT BANK—									
Continental Pipeline Co.		545,473	7,951					553,424	
Phillips Petroleum Co.	78,821	108,802		46,917	1,703	166,184			66,653
Texas Pipeline Co.	30,000	31,268		78,535	20	122,704			17,079
Union Oil Co.	43,346	39,656			383	14,702			67,917
Western Oil Trans. Co.		19,064						19,064	
Western Oil Trans. Co. (Moulton)		151,390						151,390	
	152,167	895,653	7,951	125,452	2,106	303,590		723,878	151,649
DELPHIA—Truck			144			144			
DWYER—Portal Pipeline Co.		11,479					11,479		
ELK BASIN AND ELK BASIN NORTHWEST—Marathon Pipeline Co.		114,820				114,820			
FAIRVIEW—									
Fairview Pipeline Co.		10,715					10,715		
Koch Oil Company			15,997				15,997		
		10,715	15,997				26,712		
FLAT COULEE—									
Camerland Cardinal Corp.		9,809				9,809			
FLAT LAKE AND FLAT LAKE SOUTH—Portal Pipeline Co.		56,319					56,319		
FT. GILBERT—									
Fairview Pipeline Co.		12,500					12,500		
FOUR BUTTES—Truck			221					221	
FRANNIE—Interstate Pipelne Co.		690					690		
FRED AND GEORGE CREEK—									
Camerland Cardinal Corp.	8,919	41,059				35,817			14,161
FROID SOUTH—Truck			900					900	
GAGE—Truck			174			174			
GIRARD—Koch Oil Company			1,262				1,262		
GLENDIVE, DEER CREEK, WOOD-ROW AND SAND CREEK—									
Texas Pipeline Co.	8,746	20,277			229			22,078	6,716
GOOSE LAKE—Portal Pipelne Co.		22,588					22,588		
HAY CREEK—Fairview Pipeline Co.		4,725					4,725		
HIAWATHA—Continental Pipeline Co.		6,541					6,541		
IVANHOE—Continental Pipeline Co.		4,512				4,512			
JIM COULEE—									
Continental Pipeline Co.		38,220						38,220	
KEG COULEE AND KEG COULEE NORTH—Continental Pipeline Co.		15,085				15,085			
KELLEY—Continental Pipeline Co.		5,468				5,468			
KEVIN SUNBURST—									
Big West Oil Co.	6,948			9,228		9,575			6,601
Homestake Oil & Gas Co.	3,263	2,200				2,200			3,263
Texas Pipelnc Co.	15,623	5,924			177	10,024			11,346
	25,834	8,124		9,228	177	21,799			21,210
LEARY—Permian Corp.			2,903				2,903		
LODGE GRASS—Permian Corp.			586			586			
LONE TREE CREEK—Koch Oil Co.			16,313					16,313	
MELSTONE—Continental Pipeline Co.		1,987				1,778	209		
MIDDLE WALL—									
Continental Pipeline Co.**		989						989	
MOSSER—Permian Corp.			275				275		
NOHLY—Koch Oil Co.			7,797				7,797		
OTIS CREEK—									
Western Crude Oil, Inc.			2,771				2,771		
OUTLOOK, OUTLOOK SOUTH AND OUTLOOK WEST—									
Portal Pipeline Co.		13,208					13,208		
PONDERA—Phillips Petroleum Co.	42,268	23,501			217	21,280			44,272
POPLAR, BENRUD, BENRUD EAST, RED FOX, REDSTONE—									
East Poplar Gathering System	8,978	51,584			605			54,337***	5,620
PUTNAM—Western Crude Oil, Inc.			6,838				6,838		
RABBIT HILLS—Truck			6,374				6,374		
RAGGED POINT—									
Continental Pipeline Co.		18,248				18,248			
RAYMOND—Portal Pipeline Co.		42,228					42,228		
RED CREEK—									
Western Oil Transportation Co.		20,073						20,073	
RESERVE—Portal Pipeline Co.		4,741					4,741		
RUSH MOUNTAIN—Sinclair Ref. Co.		2,670					2,670		
SALT LAKE—Koch Oil Company			3,322				3,322		
SECOND CREEK—Koch Oil Company			7,057				7,057		
SNYDER—Permian Corp.			159			159			
SOAP CREEK—Permian Corp.			3,014				3,014		
SPRING LAKE—Koch Oil Co.			696				696		
SUMATRA AND STENSVAD—									
Continental Pipeline Co.	657,525	145,220		2,999,348	(644)	133,776		2,966,766	702,195
TULE CREEK—									
Spruce Oil Co.	2,027		23,498			18,259			7,266
Permian Corp.			2,491			2,491			
	2,027		25,989			20,750			7,266
WHITLASH AND WHITLASH WEST—Camberland Cardinal Corp.		13,010				4,124		8,886	
WOLF SPRINGS—									
Continental Pipelne Co.		1,356				1,356			
WILDCAT WELLS—Truck			6,704					6,704	
TOTAL	1,202,212	3,209,791	203,508	4,690,913	2,776	739,753	2,705,063	4,547,813	1,311,019

*Cabln Creek, Cupton, Fertile Prairie, Gas City, Monarch, Repeat, Richey, Richey Southwest, Vida, Weldon and Wills Creek South.
**Little Wall Creek and Willow Creek North.
***Transferred to Butte Pipelne Company.

BARRELS OF CRUDE OIL REFINED IN MONTANA
MONTH OF NOVEMBER, 1973

	Big West Oil Co.	Continental Oil Co.	Diamond Asphalt Co.	Exxon Co.	Farmers Union	Jet Fuel Refinery	Phillips Petroleum Co.	Spruce Oil Co.	Westco Refining Co.	Total
Big Wall		4,805								4,805
Cat Creek		2,803			9,324					12,127
Cut Bank	97,230						165,664		111,050	373,944
Elk Basin		44,014		36,021	34,785					114,820
Flat Coulee									9,809	9,809
Fred & George Creek	35,817									35,817
Ivanhoe		4,512								4,512
Keg Coulee		13,265		3,141	1,867					18,273
Kelley				5,468						5,468
Kevin Sunburst	21,799									21,799
Lodge Grass		586								586
Melstone					1,778					1,778
Pondera							21,280			21,280
Ragged Point					18,248					18,248
Snyder		159								159
Sumatra & Stensvad		18,015		51,213	72,382					141,610
Tule Creek								51,772		51,772
Whitlash							4,124			4,124
Wolf Springs				1,356						1,356
Total Montana Oil	154,846	88,159		97,199	138,384		191,068	51,772	120,859	842,287
Canadian Oil Imported		545,473		494,813	545,269					1,585,555
Wyoming Oil Imported		1,026,881		670,007	243,346					1,940,234
Total Montana, Canadian & Wyoming Oil	154,846	1,660,513		1,262,019	926,999		191,068	51,772	120,859	4,368,076

AVERAGE BARRELS PER DAY

	Montana	Canada	Wyoming	Total
Year 1972	24,723	37,303	70,391	132,417
November, 1972	25,518	46,247	65,706	137,471
November, 1973	28,076	52,852	64,674	145,602

PERCENTAGE OF CRUDE OIL REFINED

	Montana	Canada	Wyoming
Year 1972	18.67%	28.17%	53.16%
November, 1972	18.56%	33.64%	47.80%
November, 1973	19.28%	36.30%	44.42%